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* W E L C O M E T O T H E *

* U. S. P A T E N T T E X T F I L E *

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1. 5,447,166, Sep. 5, 1995, Neurocognitive adaptive computer interface method and system based on on-line measurement of the user's mental effort; Alan S. Gevins, 128/731 [IMAGE AVAILABLE]

2. 5,416,510, May 16, 1995, Camera controller for stereoscopic video system; Lenny Lipton, et al., 348/43, 386, 717 [IMAGE AVAILABLE]

3. 5,394,517, Feb. 28, 1995, Integrated real and virtual environment display system; Roy S. Kalawsky, 395/129, 135 [IMAGE AVAILABLE]

4. 5,384,655, Jan. 24, 1995, Stereoscopic viewing device; Katharyne M. Sullivan, et al., 359/472, 477 [IMAGE AVAILABLE]

5. 5,374,787, Dec. 20, 1994, Object position detector; Robert J. Miller, et al., 178/18; 341/33 [IMAGE AVAILABLE]

6. 5,361,385, Nov. 1, 1994, Parallel computing system for volumetric modeling, data processing and visualization; Reuven Bakalash, 395/124; 345/31; 395/127 [IMAGE AVAILABLE]

7. 5,193,000, Mar. 9, 1993, Multiplexing technique for stereoscopic video system; Lenny Lipton, et al., 348/43, 51, 385 [IMAGE AVAILABLE]

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57815 364/CLAS

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1. 5,452,468, Sep. 19, 1995, Computer system with parallel processing for information organization; Richard E. Peterson, 395/800; **364/927.2**, **931.4**, **964**, **966.1**, **DIG.2** [IMAGE AVAILABLE]

2. 5,423,554, Jun. 13, 1995, **Virtual** **reality** game method and apparatus; Geoffrey M. Davis, 273/437, 85G, 434; 345/4, 114, 153; 348/25,

172; **364/516** [IMAGE AVAILABLE]

3. 5,394,029, Feb. 28, 1995, Geomagnetic orientation sensor, means, and system; John C. Gay, et al., 327/511; 33/361; **364/449**, **559** [IMAGE AVAILABLE]

4. 5,388,990, Feb. 14, 1995, **Virtual** **reality** flight control display with six-degree-of-freedom controller and spherical orientation overlay; Brian C. Beckman, 434/38; 345/8; **364/578**; 395/152; 434/43, 307R, 372 [IMAGE AVAILABLE]

5. 5,388,059, Feb. 7, 1995, Computer vision system for accurate monitoring of object pose; Daniel F. DeMenthon, **364/559**, **516** [IMAGE AVAILABLE]

6. 5,381,361, Jan. 10, 1995, Method and apparatus for real-time constraint solution; David B. Kirk, et al., **364/807**, **148** [IMAGE AVAILABLE]

7. 5,355,325, Oct. 11, 1994, Method and apparatus for correlating object measurements with object measurement estimates; Jeffrey K. Uhlmann, **364/516** [IMAGE AVAILABLE]

8. 5,322,441, Jun. 21, 1994, Method and apparatus for providing a portable visual display; Russell F. Lewis, et al., 434/307R; 33/313, 366; 340/686; 345/8; 348/121; **364/578**; 395/152, 161; 434/43, 69; 455/89 [IMAGE AVAILABLE]

9. 5,310,349, May 10, 1994, Instructional management system; Dan B. Daniels, et al., 434/350; 345/156; **364/419.2**; 395/152, 161, 927; 434/118, 307R, 365 [IMAGE AVAILABLE]

10. 5,307,295, Apr. 26, 1994, Creating and controlling lighting designs; Brooks W. Taylor, et al., **364/578**; 315/292 [IMAGE AVAILABLE]

11. 5,297,061, Mar. 22, 1994, Three dimensional pointing device monitored by computer vision; Daniel F. Dementhon, et al., **364/559**; 345/156; **364/516** [IMAGE AVAILABLE]

12. 5,275,565, Jan. 4, 1994, Modular display simulator and method; Rick L. Moncrief, 434/29; 273/85G, 437; 345/1, 126; 348/121; **364/410**, **578**; 434/38, 69, 307R [IMAGE AVAILABLE]

13. 5,260,869, Nov. 9, 1993, Communication and feedback system for promoting development of physically disadvantaged persons; Linda J. Ferrier, et al., **364/413.01**; 340/815.69; 434/112 [IMAGE AVAILABLE]

14. 5,227,985, Jul. 13, 1993, Computer vision system for position monitoring in three dimensions using non-coplanar light sources attached to a monitored object; Daniel F. DeMenthon, **364/559**; 345/158; **364/516** [IMAGE AVAILABLE]

15. 5,184,319, Feb. 2, 1993, Force feedback and textures simulating interface device; James F. Kramer, **364/806**; 345/156; **364/578**; 414/5; 901/34 [IMAGE AVAILABLE]

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 * W E L C O M E T O T H E *
 * U . S . P A T E N T T E X T F I L E *
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 L1 194 VIRTUAL REALITY
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1. 5,517,663, May 14, 1996, Animated user interface for computer program creation, control and execution; Kenneth M. Kahn, 395/800; 364/226.2, DIG.1; 395/152, 155 [IMAGE AVAILABLE]
2. 5,517,570, May 14, 1996, Sound reproducing array processor system; Stephen F. Taylor, 381/18, 23 [IMAGE AVAILABLE]
3. 5,517,355, May 14, 1996, Card adapted for use in stereoscope; Katharyne M. Sullivan, et al., 359/474, 471 [IMAGE AVAILABLE]
4. 5,513,991, May 7, 1996, Method of **simulating** personal individual art instruction; Julia Reynolds, et al., 434/81; 348/61; 395/154; 434/88, 98, 307R [IMAGE AVAILABLE]
5. 5,513,129, Apr. 30, 1996, Method and system for controlling computer-generated virtual environment in response to audio signals; Mark Bolas, et al., 364/578 [IMAGE AVAILABLE]
6. 5,512,919, Apr. 30, 1996, Three-dimensional coordinates input apparatus; Yoshitsugu Araki, 345/156, 158; 414/1 [IMAGE AVAILABLE]
7. 5,510,832, Apr. 23, 1996, Synthesized stereoscopic imaging system and method; Baxter J. Garcia, 348/56, 42, 46, 51 [IMAGE AVAILABLE]
8. 5,509,810, Apr. 23, 1996, Interactive neonatal resuscitation training **simulator** and method; Mitchell Schertz, et al., 434/262; 128/774; 364/413.01; 434/265, 365; 901/1 [IMAGE AVAILABLE]
9. 5,509,806, Apr. 23, 1996, Portable multiple module **simulator** apparatus and method of use; Thayne N. Ellsworth, 434/29; 472/59, 60 [IMAGE AVAILABLE]
10. 5,503,161, Apr. 2, 1996, Universal medical instrument based on spectrum analysis; Raymond C. Van Den Heuvel, 128/773 [IMAGE AVAILABLE]
11. 5,503,040, Apr. 2, 1996, Computer interface device; Forrest S. Wright, 74/471XY; 244/236, 237; 341/20; 345/157 [IMAGE AVAILABLE]
12. 5,502,481, Mar. 26, 1996, Desktop-based projection display system for stereoscopic viewing of displayed imagery over a wide field of view; Aaron M. Dentinger, et al., 348/51, 52; 353/7; 359/458, 462 [IMAGE AVAILABLE]
13. 5,499,146, Mar. 12, 1996, Method and apparatus for recording images

for a **virtual** **reality** system; Daniel M. Donahue, et al.,
360/33.1; 358/335 [IMAGE AVAILABLE]

14. 5,497,453, Mar. 5, 1996, Method and apparatus for detecting and visualizing interferences between solids; Abraham E. Megahed, et al., 395/122, 124, 127 [IMAGE AVAILABLE]

15. 5,496,220, Mar. 5, 1996, Sensory **simulator**; Brad Engstrand, 472/60; 434/55; 472/130 [IMAGE AVAILABLE]

16. 5,495,576, Feb. 27, 1996, Panoramic image based **virtual** **reality**/telepresence audio-visual system and method; Kurtis J. Ritchey, 395/125, 154 [IMAGE AVAILABLE]

17. 5,495,305, Feb. 27, 1996, Method for **simulation** of visual disabilities; Neil F. Martin, et al., 351/177, 159, 160R, 162 [IMAGE AVAILABLE]

18. 5,490,784, Feb. 13, 1996, **Virtual** **reality** system with enhanced sensory apparatus; David E. E. Carmein, 434/55, 29, 307R, 365 [IMAGE AVAILABLE]

19. 5,490,239, Feb. 6, 1996, **Virtual** **reality** imaging system; William L. Myers, 395/129, 119, 152 [IMAGE AVAILABLE]

20. 5,488,862, Feb. 6, 1996, Monolithic silicon rate-gyro with integrated sensors; Armand P. Neukermans, et al., 73/504.02, 504.12 [IMAGE AVAILABLE]

21. 5,488,508, Jan. 30, 1996, Vignetting technique for improving appearance of partially overlapped binocular displays; Eric C. Haseltine, 359/362, 227, 235, 236, 363, 407, 410, 601 [IMAGE AVAILABLE]

22. 5,485,172, Jan. 16, 1996, Automatic image regulating arrangement for head-mounted image display apparatus; Isao Sawachika, et al., 345/8, 7, 102 [IMAGE AVAILABLE]

23. 5,483,535, Jan. 9, 1996, Communications network interface, and adapter and method therefor; Keith A. McMillen, et al., 370/85.1; 340/825.05; 370/85.5 [IMAGE AVAILABLE]

24. 5,483,254, Jan. 9, 1996, 3D video display devices; Robert Powell, 345/87; 348/51; 359/458 [IMAGE AVAILABLE]

25. 5,482,051, Jan. 9, 1996, Electromyographic **virtual** **reality** system; Narendra P. Reddy, et al., 128/733, 774 [IMAGE AVAILABLE]

26. 5,481,669, Jan. 2, 1996, Architecture and apparatus for image generation utilizing enhanced memory devices; John W. Poulton, et al., 395/164, 162, 163 [IMAGE AVAILABLE]

27. 5,474,290, Dec. 12, 1995, Football training machine; Sebastian D. Rascona, et al., 273/55R [IMAGE AVAILABLE]

28. 5,473,631, Dec. 5, 1995, Simultaneous transmission of data and audio signals by means of perceptual coding; Donald W. Moses, 375/202; 380/34; 395/2.11, 2.12, 2.41 [IMAGE AVAILABLE]

29. 5,471,435, Nov. 28, 1995, Method for acoustic/electromagnetic signal processing; Richard A. Marschall, 367/135; 342/196; 367/88 [IMAGE AVAILABLE]
30. 5,469,511, Nov. 21, 1995, Method and apparatus for presentation of on-line directional sound; Russell F. Lewis, et al., 381/173; 73/603; 348/62; 381/190; 434/44, 116, 258 [IMAGE AVAILABLE]
31. 5,467,401, Nov. 14, 1995, Sound environment **simulator** using a computer **simulation** and a method of analyzing a sound space; Sachio Nagamitsu, et al., 381/63, 17 [IMAGE AVAILABLE]
32. 5,459,382, Oct. 17, 1995, Method and system for providing a tactile **virtual** **reality** and manipulator defining an interface device therefor; Charles J. Jacobus, et al., 318/568.11, 568.1; 395/99; 901/9 [IMAGE AVAILABLE]
33. 5,458,490, Oct. 17, 1995, **Simulated** amphibious vehicular environments "save" system trainer; Jacqueline Cabana, 434/29, 60 [IMAGE AVAILABLE]
34. 5,456,604, Oct. 10, 1995, Method and system for **simulating** vehicle operation using scale models; Robert A. Olmsted, et al., 434/62; 364/578; 434/29, 365 [IMAGE AVAILABLE]
35. 5,454,043, Sep. 26, 1995, Dynamic and static hand gesture recognition through low-level image analysis; William T. Freeman, 382/168; 345/122; 382/170; 395/119, 155 [IMAGE AVAILABLE]
36. 5,453,758, Sep. 26, 1995, Input apparatus; Kazuhiro Sato, 345/158, 156 [IMAGE AVAILABLE]
37. 5,452,468, Sep. 19, 1995, Computer system with parallel processing for information organization; Richard E. Peterson, 395/800; 364/927.2, 931.4, 964, 966.1, DIG.2 [IMAGE AVAILABLE]
38. 5,451,924, Sep. 19, 1995, Apparatus for providing sensory substitution of force feedback; Michael J. Massimino, et al., 340/407.1, 407.2, 680, 825.19; 434/112, 116 [IMAGE AVAILABLE]
39. 5,448,287, Sep. 5, 1995, Spatial video display system; Andrea S. Hull, 348/39, 36, 48 [IMAGE AVAILABLE]
40. 5,446,834, Aug. 29, 1995, Method and apparatus for high resolution **virtual** **reality** systems using head tracked display; Michael Deering, 395/127, 119, 155 [IMAGE AVAILABLE]
41. 5,446,687, Aug. 29, 1995, Data storage medium for storing data as a polarization of a data magnetic field and method and apparatus using spin-polarized electrons for storing the data onto the data storage medium and reading the stored data therefrom; Thomas D. Hurt, et al., 365/121, 118 [IMAGE AVAILABLE]
42. 5,443,260, Aug. 22, 1995, **Virtual** **reality** baseball training and amusement system; Larry D. Stewart, et al., 273/26R, 26A [IMAGE AVAILABLE]
43. 5,442,729, Aug. 15, 1995, Strain-sensing goniometers, systems and

recognition algorithms; James F. Kramer, et al., 395/2.8; 128/782; 395/22 [IMAGE AVAILABLE]

44. 5,438,623, Aug. 1, 1995, Multi-channel spatialization system for audio signals; Durand R. Begault, 381/17, 25 [IMAGE AVAILABLE]

45. 5,436,638, Jul. 25, 1995, Image display method and apparatus with means for yoking viewpoint orienting muscles of a user; Mark Bolas, et al., 345/156; 273/148B [IMAGE AVAILABLE]

46. 5,432,895, Jul. 11, 1995, **Virtual** **reality** imaging system; William L. Myers, 395/119 [IMAGE AVAILABLE]

47. 5,432,623, Jul. 11, 1995, Optical lens incorporating an integral hologram; Michael S. Egan, et al., 359/15; 351/41, 51 [IMAGE AVAILABLE]

48. 5,429,140, Jul. 4, 1995, Integrated **virtual** **reality** rehabilitation system; Grigore C. Burdea, et al., 128/774 [IMAGE AVAILABLE]

49. 5,423,554, Jun. 13, 1995, **Virtual** **reality** game method and apparatus; Geoffrey M. Davis, 463/4; 345/4, 114, 153; 348/25, 172; 364/516; 463/31, 36 [IMAGE AVAILABLE]

50. 5,422,715, Jun. 6, 1995, Hybrid orthogonal localization and orientation system; Thomas L. Clarke, 356/141.3, 375 [IMAGE AVAILABLE]

51. 5,422,653, Jun. 6, 1995, Passive **virtual** **reality**; Francis J. Maguire, Jr., 345/9; 359/630 [IMAGE AVAILABLE]

52. 5,415,550, May 16, 1995, Riding **simulation** system; Katsuhito Aoki, et al., 434/61, 29 [IMAGE AVAILABLE]

53. 5,410,371, Apr. 25, 1995, Display system employing acoustro-optic tunable filter; James L. Lambert, 348/769, 754; 359/285 [IMAGE AVAILABLE]

54. 5,408,346, Apr. 18, 1995, Optical collimating device employing cholesteric liquid crystal and a non-transmissive reflector; Richard G. Trissel, et al., 359/65, 38, 70, 629, 631, 634, 641 [IMAGE AVAILABLE]

55. 5,404,406, Apr. 4, 1995, Method for controlling localization of sound image; Norihiko Fuchigami, et al., 381/17, 26 [IMAGE AVAILABLE]

56. 5,404,377, Apr. 4, 1995, Simultaneous transmission of data and audio signals by means of perceptual coding; Donald W. Moses, 375/200; 380/34; 395/2.11, 2.41 [IMAGE AVAILABLE]

57. 5,402,259, Mar. 28, 1995, Linear electroabsorptive modulator and related method of analog modulation of an optical carrier; Lawrence J. Lembo, et al., 359/245, 276, 284; 385/2 [IMAGE AVAILABLE]

58. 5,400,177, Mar. 21, 1995, Technique for depth of field viewing of images with improved clarity and contrast; Tony Petitto, et al., 359/451; 348/44 [IMAGE AVAILABLE]

59. 5,396,583, Mar. 7, 1995, Cylindrical to planar image mapping using scanline coherence; Shenchang E. Chen, et al., 395/127 [IMAGE AVAILABLE]

60. 5,394,517, Feb. 28, 1995, Integrated real and virtual environment display system; Roy S. Kalawsky, 395/129, 135 [IMAGE AVAILABLE]
61. 5,393,074, Feb. 28, 1995, Modular electronic gaming system; Thomas Bear, et al., 273/440; 472/62, 66; D21/27 [IMAGE AVAILABLE]
62. 5,389,865, Feb. 14, 1995, Method and system for providing a tactile ****virtual**** ****reality**** and manipulator defining an interface device therefor; Charles J. Jacobus, et al., 318/568.11, 568.1, 590; 395/95; 901/7, 9 [IMAGE AVAILABLE]
63. 5,388,990, Feb. 14, 1995, ****Virtual**** ****reality**** flight control display with six-degree-of-freedom controller and spherical orientation overlay; Brian C. Beckman, 434/38; 345/8; 364/578; 395/152; 434/43, 307R, 372 [IMAGE AVAILABLE]
64. 5,388,276, Feb. 14, 1995, Headwear; Richard Holmes, 2/421, 9; 359/630 [IMAGE AVAILABLE]
65. 5,388,206, Feb. 7, 1995, Architecture and apparatus for image generation; John W. Poulton, et al., 395/163, 162, 164 [IMAGE AVAILABLE]
66. 5,388,059, Feb. 7, 1995, Computer vision system for accurate monitoring of object pose; Daniel F. DeMenthon, 364/559, 516 [IMAGE AVAILABLE]
67. 5,384,851, Jan. 24, 1995, Method and apparatus for controlling sound localization; Junichi Fujimori, 381/17 [IMAGE AVAILABLE]
68. 5,384,655, Jan. 24, 1995, Stereoscopic viewing device; Katharyne M. Sullivan, et al., 359/472, 477 [IMAGE AVAILABLE]
69. 5,381,158, Jan. 10, 1995, Information retrieval apparatus; Kenichi Takahara, et al., 345/156; 395/161, 600 [IMAGE AVAILABLE]
70. 5,376,785, Dec. 27, 1994, Optical displacement sensor utilizing optical diffusion; Philip K. Chin, et al., 250/214PR, 227.21, 229 [IMAGE AVAILABLE]
71. 5,373,857, Dec. 20, 1994, Head tracking apparatus; Paul J. Travers, et al., 128/782 [IMAGE AVAILABLE]
72. 5,369,450, Nov. 29, 1994, Electronic and computational correction of chromatic aberration associated with an optical system used to view a color video display; Eric C. Haseltine, et al., 348/745; 315/368.12; 348/580, 746, 806, 807 [IMAGE AVAILABLE]
73. 5,361,385, Nov. 1, 1994, Parallel computing system for volumetric modeling, data processing and visualization; Reuven Bakalash, 395/124; 345/31; 395/127 [IMAGE AVAILABLE]
74. 5,355,325, Oct. 11, 1994, Method and apparatus for correlating object measurements with object measurement estimates; Jeffrey K. Uhlmann, 364/516 [IMAGE AVAILABLE]
75. 5,354,162, Oct. 11, 1994, Actuator system for providing force feedback to portable master support; Grigore C. Burdea, et al., 414/5, 4

[IMAGE AVAILABLE]

76. 5,348,477, Sep. 20, 1994, High definition television head mounted display unit; Brian L. Welch, et al., 434/43, 40, 44 [IMAGE AVAILABLE]

77. 5,347,400, Sep. 13, 1994, Optical system for **virtual** **reality** helmet; Ken Hunter, 359/815; 345/7, 8; 359/630, 742, 813 [IMAGE AVAILABLE]

78. 5,325,386, Jun. 28, 1994, Vertical-cavity surface emitting laser assay display system; Jack L. Jewell, et al., 372/50; 359/214, 215; 372/45 [IMAGE AVAILABLE]

79. 5,322,441, Jun. 21, 1994, Method and apparatus for providing a portable visual display; Russell F. Lewis, et al., 434/307R; 33/313, 366; 340/686; 345/8; 348/121; 364/578; 395/152, 161; 434/43, 69; 455/89 [IMAGE AVAILABLE]

80. 5,320,362, Jun. 14, 1994, Computer controlled amusement structure; Thomas Bear, et al., 463/5; 273/445, 454, 460; 463/50, 51; 472/66 [IMAGE AVAILABLE]

81. 5,319,490, Jun. 7, 1994, Helmet mounted display including synchronously moving tilted mechanisms; David A. Ansley, 359/209, 203, 630; 385/116 [IMAGE AVAILABLE]

82. 5,317,348, May 31, 1994, Full color solid state laser projector system; Randall J. Knize, 353/31; 348/750, 760; 353/37; 359/48 [IMAGE AVAILABLE]

83. 5,316,480, May 31, 1994, Portable multiple module **simulator** apparatus; Thayne N. Ellsworth, 434/29 [IMAGE AVAILABLE]

84. 5,308,246, May 3, 1994, Visualization training device with adjustable electro-optical shutter; Mark E. Balocco, 434/236; 351/44; 359/83 [IMAGE AVAILABLE]

85. 5,307,295, Apr. 26, 1994, Creating and controlling lighting designs; Brooks W. Taylor, et al., 364/578; 315/292 [IMAGE AVAILABLE]

86. 5,303,085, Apr. 12, 1994, Optically corrected helmet mounted display; Richard D. Rallison, 359/631; 385/116, 120 [IMAGE AVAILABLE]

87. 5,287,437, Feb. 15, 1994, Method and apparatus for head tracked display of precomputed stereo images; Michael Deering, 395/127, 119 [IMAGE AVAILABLE]

88. 5,280,265, Jan. 18, 1994, Strain-sensing goniometers, systems and recognition algorithms; James F. Kramer, et al., 338/210; 128/782 [IMAGE AVAILABLE]

89. 5,276,437, Jan. 4, 1994, Multi-media window manager; Thomas A. Horvath, et al., 345/119, 118 [IMAGE AVAILABLE]

90. 5,275,565, Jan. 4, 1994, Modular display **simulator** and method; Rick L. Moncrief, 434/29; 345/1, 126; 348/121; 364/410, 578; 434/38, 69, 307R [IMAGE AVAILABLE]

91. 5,263,382, Nov. 23, 1993, Six Degrees of freedom motion device; Thurston L. Brooks, et al., 74/471XY, 490.06; 901/23, 26 [IMAGE AVAILABLE]

92. 5,253,832, Oct. 19, 1993, Spring counterbalanced boom suspension system; Mark T. Bolas, et al., 248/123.11 [IMAGE AVAILABLE]

93. 5,234,346, Aug. 10, 1993, Educational and training **simulator** system and method; James W. Rice, 434/316; 348/58, 121; 434/44, 308 [IMAGE AVAILABLE]

94. 5,227,985, Jul. 13, 1993, Computer vision system for position monitoring in three dimensions using non-coplanar light sources attached to a monitored object; Daniel F. DeMenthon, 364/559; 345/158; 364/516 [IMAGE AVAILABLE]

95. 5,214,615, May 25, 1993, Three-dimensional displacement of a body with computer interface; Will Bauer, 367/128, 907 [IMAGE AVAILABLE]

96. 5,185,561, Feb. 9, 1993, Torque motor as a tactile feedback device in a computer system; Michael D. Good, et al., 318/432; 345/156; 434/45 [IMAGE AVAILABLE]

97. 5,184,319, Feb. 2, 1993, Force feedback and textures **simulating** interface device; James F. Kramer, 364/806; 345/156; 364/578; 414/5; 901/34 [IMAGE AVAILABLE]

98. 5,177,872, Jan. 12, 1993, Method and apparatus for monitoring physical positioning of a user; Russell F. Lewis, et al., 33/366; 434/307R [IMAGE AVAILABLE]

99. 5,165,897, Nov. 24, 1992, Programmable tactile stimulator array system and method of operation; Alfred D. Johnson, 434/113; 340/825.19; 400/124.14; 434/112; 601/84 [IMAGE AVAILABLE]

100. 5,148,310, Sep. 15, 1992, Rotating flat screen fully addressable volume display system; Robert G. Batchko, 359/479; 345/139; 359/462 [IMAGE AVAILABLE]

101. 5,130,794, Jul. 14, 1992, Panoramic display system; Kurtis J. Ritchey, 348/39, 383 [IMAGE AVAILABLE]

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